



2222 M Self-aligning ball bearings

Self-aligning ball bearings

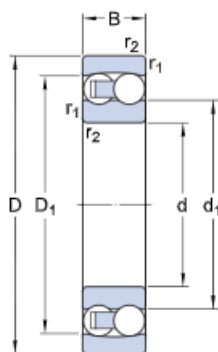
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

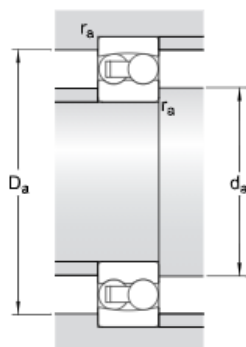


DIMENSIONS

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	53 mm	Width
d ₁	≈ 138.5 mm	Shoulder diameter inner ring
D ₁	≈ 174.3 mm	Shoulder diameter outer ring
r _{1,2}	min. 2.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 122 mm	Abutment diameter shaft
D _i	max. 188 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius



CALCULATION DATA

C	124 kN	Basic dynamic load rating
C ₀	52 kN	Basic static load rating
P _u	2.12 kN	Fatigue load limit
	6 000 r/min	Reference speed
	4 300 r/min	Limiting speed
α	2.5 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.28	Calculation factor
Y ₀	2.5	Calculation factor
Y ₁	2.2	Calculation factor
Y ₂	3.5	Calculation factor

MASS

	7.1 kg	Mass bearing
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